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## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. MXIC 1535-1

First Inventor ChiaHua Ho

Title MRAM ARRAY EMPLOYING SPIN-FILTERING ELEMENT CONNECTED BY SPIN-HOLD ELEMENT TO MRAM CELL STRUCTURE FOR ENHANCED MAGNETORESISTANCE

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Express Mail Label No. EV 314 045 742 US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO:  Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450	. PTO
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 21] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Reader Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copie  ACCOMPANYING APPLICATION PART	22278 U.8 10/7919
4. ✓ Drawing(s) (35 U.S.C. 113) [Total Sheets]  5. Oath or Declaration [Total Sheets]  a. ✓ Newly executed (original or copy)  b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. ☐ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. ✓ Application Data Sheet. See 37 CFR 1.76	9. Assignment Papers (cover sheet & document(s) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. Important Information Disclosure Copies of Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/or its equivalent.  Other:	IDS
18. If a CONTINUING APPLICATION, check appropriate box, and sup specification following the title, or in an Application Data Sheet under 3  Continuation  Divisional  Continuation  Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the 5b, is considered a part of the disclosure of the accompanying continuation	7 CFR 1.76:  tition-in-part (CIP) of prior application No.:	
The incorporation can only be relied upon when a portion has been inadver	tently omitted from the submitted application parts.  DENCE ADDRESS	<u> </u>
Customer Number: 22470	OR Correspondence address belo	
Name		
Address		
City	State Zip Code	
Country	elephone Fax	
Name (Print/Type)   Bill Kennedy	Registration No. (Attorney/Agent) 33,407	
Signature Beg	No. 53 407 Date 03/03/200	4

This collection of information is required by 3 FR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

		PTO/SB/17 (10-03)			
FEE TRANSMITTAL	Complete if Known				
	Application Number	Unassigned			
for FY 2004	Filing Date	03 March 2004			
Effective 10/01/2003. Patent fees are subject to annual revision.	First Named Inventor	ChiaHua Ho			
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name	Unassigned			
	Art Unit	Unassigned			
TOTAL AMOUNT OF PAYMENT (\$) 2120	Attorney Docket No.	MXIC 1535-1			
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)				
Check Credit Card Money Order Other None	3. ADDITIONAL FEES				

METHOD OF PAYMENT (check all that apply)		1			FEE C	ALCULATION (continued)				
Check Credit Card Money Order Other None		3. ADE	DITIONAL	FEES						
Deposit Acco	ount:				Large	Entity	Small	Entity	•	
Deposit					Fee Code	Fee (\$)	Fee Code	Fee	Fee Description	Fee
Account Number	50-	0869	€		1051	130	2051	(\$) 65	Surcharge - late filing fee or oath	Paid
				·	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit - Hayron Roffel & Wefold I I D		1053	130	1053	130	Non-English specification				
Account Haynes Beffel & Wofeld LLP		1812	2,520	1812	2,520	For filing a request for reexamination	<del></del>			
The Director is a	uthorized	to: (c	heck all that apply)		1804	920°	1804	920*	Requesting publication of SIR prior to	
Charge fee(s	) indicated	below	Credit any overpay	ments	ŀ				Examiner action	
Charge any a	additional f	ee(s) c	or any underpayment of fee	e(s)	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	1 1
			, except for the filing fee	, ,	1251	110	2251	55	Extension for reply within first month	<u> </u>
to the above-ident				_	1252	420	2252	210	Extension for reply within second	
		FEE	CALCULATION		1				month	
1. BASIC FI	LING FE	E	•		1253	950	2253	475	Extension for reply within third month	
Large Entity	Small Ent		<u>.</u>		1254	1,480	2254	740	Extension for reply within fourth month	
		Fee	Fee Description	Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month	
, ,		(\$) 385	I Hiliby filing foo	770	1401	330	2401	165	Notice of Appeal	
		170	Utility filing fee Design filing fee	770	1402	330	2402	165	Filing a brief in support of an appeal	
		265	Plant filing fee		1403	290	2403	145	Request for oral hearing .	
1004 770	2004	385	Reissue filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160	2005	80	Provisional filing fee		1452	110	2452	55	Petition to revive - unavoidable	
	SI.	втот	A1 /1\	(\$) 770	1453	1,330	2453	655	Petition to revive – unintentional	
	30	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AL (1)	(3) 770	1501	1,330	2501	655	Utility issue fee (or reissue)	
2. EXTRA CL	AIM FE	ES FO	OR UTILITY AND REI	SSUE	1502	480	2502	240	Design issue fee	
-			Fees from		1503	640	2503	320	Plant issue fee	
_		Ext	ra Claims below	Fee Paid	1460	130	1460	130	Petitions to the Commissioner	
Total Claims 95	-20	= 75	5 X18	= 1350	1807	50	1807	50	Petitions related to provisional applications	
Independent Claims 3	-3	= 0	×	]=	1806	180	1806	180	Submission of Information Disclosure Stmt	
Multiple Dependent	•	_	×	]=	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
Large Entity Fee Fee	Small Er	ntity Fee			1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
Code (\$) 1202 18	Code 2202	( <b>\$</b> )	Fee Description	of 20	1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1201 86	2201	43	Independent clair	ns in excess of 3	1801	770	2801	385	Request for Continued Examination (RCE)	
1203 290	2203	145		nt claim, if not paid	1802	900	1802	900	Request for expedited examination	$\vdash$
1204 86	2204	43	over original pa	atent	1.502	550			of a design application	
1205 18 2205 9 ** Reissue claims in excess of 20 Oti				Other fee (specify)						
**Or number nrevi	iousty naid		STOTAL (2) (\$) er; For Reissues, see above	1350	*Reduc	ed by Bas	ic Filing	Fee Pai	d SUBTOTAL (3)	
	<i></i> , paid,	9-001			<u> —</u>					
SUBMITTED BY Complete (if applicable)										

SUBMITTED BY				Cor	mplete (if applicable)
Name (Print/Type)		gistration No. (Attorney/Agent)	33,407	Telephone	650-712-0340
Signature	Mhu	P Ry. No. 33	,107	Date	03 March 2004